

Bruhat Bengaluru Mahanagara Palike											
Yalahanka Project Division											
Name Of work : - Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli											
Name of Agency :-M/s KRIDL											
Bill No :- 1st and Final Bill											
Pre-Measurements											
Recorded on											
BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
18	Labour charges for laying and jointing glazed stone ware pipes of 0.6m length and of specified dia., of tested quality conforming to IS 651 of 1965 including caulking with hemp yarn, jointing with CM 1:2 and testing with water etc. complete for: (Rate to include cost of jointing materials and transportation of pipes from store work site but excluding the cost of earth work) - Glazed Stone Ware pipe of 230 mm dia (P.No 159 I.No.7.3 BWSSB 2017-18)										
	Sanitary Work										
	2nd cross to Service Road										
	0.00	15.00		1.00	15.00					15.00	
	15.00	30.00		1.00	15.00					15.00	
	30.00	45.00		1.00	15.00					15.00	
	1st Cross Road										
	0.00	15.00		1.00	15.00					15.00	
	15.00	30.00		1.00	15.00					15.00	
	30.00	45.00		1.00	15.00					15.00	
	45.00	60.00		1.00	15.00					15.00	
	60.00	75.00		1.00	15.00					15.00	
	75.00	90.00		1.00	15.00					15.00	
	90.00	100.00		1.00	10.00					10.00	
	2nd Cross Road (Sai Baba Temple Back side Rd)										
	0.00	15.00		1.00	15.00					15.00	
	15.00	30.00		1.00	15.00					15.00	
	30.00	45.00		1.00	15.00					15.00	
	45.00	60.00		1.00	15.00					15.00	
	60.00	62.00		1.00	2.00					2.00	
	in Service Road										
	0.00	15.00		1.00	15.00					15.00	
	15.00	30.00		1.00	15.00					15.00	
	30.00	40.00		1.00	10.00					10.00	
	Deduction of Manhole			-7.00	1.20					-8.40	
									Total	238.60	Cum

Assistant Executive Engineer
Byatarayanapura Sub-Division
Contractor KRIDL, BBMP, Bangalore

Assistant Engineer(Project) 18/2/19

Assistant Executive Engineer
Project Division, Yalahanka
18/2/2019

18/2/2015

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BOQ Item No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
21	Dismantling the damaged or collapsed manhole of 4" dia conical in shape and reconstructing the same with machine made wire 6 brick in CM (1:4) as per design and specification of new cut manhole 4" dia with old frame and cover excluding bed concrete 13.6 (BWSSB SR 2016-17, P-97, I-92 MTR DEPTH)									
	Old Manhole Rising									
			3						3.00	
								Total	3.00	No's

Assistant Executive Engineer
Byatarayanapura Sub-Division
Contractor, KRIDL, BBMP, Bangalore

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18/2/2019

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Recorded on											
BOQ Item No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	
22	Providing and constructing "WIRE CUT BRICK MANHOLE CHAMBERS" using sulphate resistant cement, coNickel in shape at top, with CC 1:3:6 foundation using 40 mm and down size graded metal of approved quality and with an offset of 0.15M alround the chamber. Construct Brick masonry in CM 1:4, 340 mm thick, with wirecut bricks of approved quality, plaster inside and out side with CM 1:3, 12 mm thick, except for the coNickel surface outside where the plaster thickness shall be 20 mm. Slope inside to be 1:6 in the concrete towards central drain and finished smooth. Fixing of pipes in CC 1:2:4 with graded metal of 20 mm and down size. Supplying and fixing SFRC manhole frame and cover conforming to IS:12592 with latest amendment, in CC 1:2:4. Supplying and fixing footsteps made of 12 mm dia. steel bars (Fe-415) with 3 mm thick plastic encapsulation (IS-10910). The footsteps shall be fixed 30cms apart and on CC block embedded to masonry wall. The whole works include excavation in all types of soils, watering, curing, barricading, danger lighting, pouring tar over MH frame and cover, cost of tar, shoring, strutting, de-watering, engraving manhole number with flow direction on the inner coNickel surface etc. as per the drawing etc. as per technical specifications and for the following diameters and depth etc. for:. (inclusive of earthwork for all types of soil) (BWSSB SR 2017-18, P-168 I-T300) For 1.2 m depth (I No. T300C)										
	1.2m Depth Manhole										
	2nd cross to Service Road		1						1.00		
	1st Cross Road		2						2.00		
								Total	3.00	No's	

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[Signature]
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[Signature] 18/2/19
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Project Division, Yalahanka

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Bill No :- 1st and Final Bill										
Pre-Measurements										
Recorded on										
BOQ Item No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
23	Providing and constructing "WIRE CUT BRICK MANHOLE CHAMBERS" using suphate resistant cement, coNickel in shape at top, with CC 1:3:6 foundation using 40 mm and down size graded metal of approved quality and with an offset of 0.15M around the chamber. Construct Brick masonry in CM 1:4, 340 mm thick, with wirecut bricks of approved quality, plaster inside and out side with CM 1:3, 12 mm thick, except for the coNickel surface outside where the plaster thickness shall be 20 mm. Slope inside to be 1:6 in the concrete towards central drain and finished smooth. Fixing of pipes in CC 1:2:4 with graded metal of 20 mm and down size. Supplying and fixing SFRC manhole frame and cover conforming to IS:12592 with latest amendment, in CC 1:2:4. Supplying and fixing footsteps made of 12 mm dia. steel bars (Fe-415) with 3 mm thick plastic encapsulation (IS-10910). The footsteps shall be fixed 30cms apart and on CC block embedded to masonry wall. The whole works include excavation in all types of soils, watering, curing, barricading, danger lighting, pouring tar over MH frame and cover, cost of tar, shoring, strutting, de-watering, engraving manhole number with flow direction on the inner coNickel surface etc. as per the drawing etc. as per technical specifications and for the following diameters and depth etc. for:. (inclusive of earthwork for all types of soil) (BWSSB SR 2017-18, P-168 I-T300) For 1.4 m depth (I No. T300E)									
	1.4m Depth Manhole									
	2nd cross to Service Road		1						1.00	
	1st Cross Road		1						1.00	
	in Service Road		1						1.00	
								Total	3.00	No's

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore
Contractor

[Signature]
Assistant Engineer(Project) 18/2/19

[Signature]
Assistant Executive Engineer
Project Division, Yalahanka
18/2/2019

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Yalahanka Project Division											
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Name of Agency :-M/s KRIDL											
Bill No :- 1st and Final Bill											
Pre-Measurements											
Recorded on											
BOQ Item No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	
24	Providing and constructing "WIRE CUT BRICK MANHOLE CHAMBERS" using sulphate resistant cement, coNickel in shape at top, with CC 1:3:6 foundation using 40 mm and down size graded metal of approved quality and with an offset of 0.15M alround the chamber. Construct Brick masonry in CM 1:4, 340 mm thick, with wirecut bricks of approved quality, plaster inside and out side with CM 1:3, 12 mm thick, except for the coNickel surface outside where the plaster thickness shall be 20 mm. Slope inside to be 1:6 in the concrete towards central drain and finished smooth. Fixing of pipes in CC 1:2:4 with graded metal of 20 mm and down size. Supplying and fixing SFRC manhole frame and cover conforming to IS:12592 with latest amendment, in CC 1:2:4. Supplying and fixing footsteps made of 12 mm dia. steel bars (Fe-415) with 3 mm thick plastic encapsulation (IS-10910). The footsteps shall be fixed 30cms apart and on CC block embedded to masonry wall. The whole works include excavation in all types of soils, watering, curing, barricading, danger lighting, pouring tar over MH frame and cover, cost of tar, shoring, strutting, de-watering, engraving manhole number with flow direction on the inner coNickel surface etc. as per the drawing etc. as per technical specifications and for the following diameters and depth etc. for:. (inclusive of earthwork for all types of soil) (BWSSB SR 2017-18, P-168 I-T300) For 1.6 m depth (I No. T300G)										
	1.6m Depth Manhole										
	1st Cross Road		1						1.00		
								Total	1.00	No's	

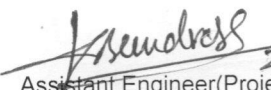
Assistant Executive Engineer
Byatarayanapura Sub-Division
Contractor KRIDL, BBMP, Bangalore

K. S. S. S. S.
Assistant Engineer (Project) 18/2/19

S. S. S. S. S.
Assistant Executive Engineer
Project Division, Yalahanka
18/2/2019

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Yalahanka Project Division										
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Bill No :- 1st and Final Bill										
Pre-Measurements										
Recorded on										
BOQ Item No	Description	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage									
20	Refilling pipeline and foundation with selected trenches available earth form trench excavation and foundation inlcuding 5 watering, consolidation in layers of 15cms., thickness including disposing off the surplus earth with all leads & lifts.(BWSSB SR 2016-17, P-9 I-2)									
	Santitary Work									
	Earth work Qty								410.27	
	Deductions									
	Pipe Volume	0.7855	-1	247.00	0.23	0.23			-10.26	
	WMM Qty								-53.69	
								Total	346.33	Cum


 Assistant Executive Engineer
 Byatarayanapura Sub-Division
 KRIDL, BBMP, Bangalore
 Contractor


 Assistant Engineer (Project)
 20/12/19


 Assistant Executive Engineer
 Project Division, Yalahanka.
 20/12/19

Bruhat Bengaluru Mahanagara Palike										
Yalahanka Project Division										
Name Of work : - Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli										
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Bill No :- 1st and Final Bill										
Pre-Measurements										
Recorded on										
BOQ Item No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
26	Hire Charges for 2HP dewatering pump to bail out water at leaking pits inclusive of hire charges etc, complete Rs.1300/- per day of 8hours shift per day (BWSSB SR 16-17 Sl.No-4, P-34)									
	2nd cross to Service Road		1						1.00	
	1st Cross Road		2						2.00	
	2nd Cross Road (Sai Baba Temple Back side		1						1.00	
	in Service Road		1						1.00	
								Total	5.00	Days

Assistant Executive Engineer
Byatarayanapura Sub-Division
Contractor, KRIDL, BBMP, Bangalore

[Signature]
Assistant Engineer(Project) 20/2/19.

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Assistant Executive Engineer
Project Division, Yalahanka.

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Recorded on										
BOQ Item No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
12	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&I WTD S.R 2018-19)									
	Concrete Road									
	2nd Cross Road (Sai Baba Temple Back Side RD)									
	0.00	15.00		1	15.00	5.30	5.30	5.30	0.25	19.88
	15.00	30.00		1	15.00	5.30	5.20	5.20	0.25	19.50
	30.00	45.00		1	15.00	5.20	5.50	5.35	0.25	20.06
	45.00	60.00		1	15.00	5.50	5.45	5.48	0.25	20.53
	60.00	61.20		1	1.20	5.40	5.00	5.20	0.25	1.56
	1st Cross Road									
	0.00	15.00		1	15.00	4.55	4.55	4.55	0.25	17.06
	15.00	25.00		1	10.00	4.50	4.50	5.20	0.25	13.00
	Connecting Road 2nd cross road to 1st Cross Road									
	0.00	15.00		1	15.00	4.60	4.50	4.55	0.20	13.65
	15.00	30.00		1	15.00	4.50	4.30	4.40	0.20	13.20
	30.00	41.00		1	11.00	4.20	4.20	4.20	0.20	9.24
	Total								147.68	cum
	Limited BOQ Qty								146.75	

Assistant Executive Engineer
Bhatavanapura Sub-Division
Contractor
KRIDL, BBMP, Bangalore

K. Sundares
Assistant Engineer(Project)
22/02/19

[Signature]
Assistant Executive Engineer
Project Division, Yalahanka
22/02/19

Bruhat Bengaluru Mahanagara Palike										
Yalahanka Project Division										
Name Of work : - Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli										
Name of Agency :-M/s KRIDL										
Bill No :- 1st and Final Bill										
Pre-Measurements										
Recorded on										
BOQ Item No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
25	Disposong off the excess excavated earth of all type up to a distance mentioned Every Km beyond 5 KM 8 Considering 10 Km below by vehicle including loading unloading with all lifts labour HOM of machinery etc., complete (BWSSB SR 2016-17, Pg-10, Item-7)									
	Pipe Volume	0.786	1	247.00	0.23	0.23			10.26	
	WMM Qty								53.69	
								Total	63.95	Cum

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Assistant Engineer(Project)

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Project Division, Yalahanka

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Bill No :- 1st and Final Bill										
Measurements										
BOQ Item No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Dept h	Quantity	Remarks
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work									
	Qty vide Pre measurement sheet page no . 1 to 2								278.94	
							Total		278.94	cum
2	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work									
	Qty vide Pre measurement sheet page no . 3 to 4									
							Total		177.67	cum
3	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work									
	Qty vide Pre measurement sheet page no . 5 to 5									
							Total		691.60	sqm

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Project Division, Yelahanka.

BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Dept h	Quantity	Remarks
	Chainage										
4	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6										
	Qty vide Pre measurement sheet page no . 6 to 7										
										Total	100.22 cum
5	KSRB - 4.9.2: Providing TMT steel Fe500 reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebtrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work										
	Qty vide Pre measurement sheet page no . 8 to 9										
										Total	5.53 MT
6	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13. (P.No.25, I.No.5.6 of PW, P&I WTD S.R 2018-19)										
	Qty vide Pre measurement sheet page no . 10 to 10										
										Total	9.61 Cum

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30/3/19

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Project Division, Yelahanka.

30/3/2019

BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Dept h	Quantity	Remarks
	Chainage										
7	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.										
	Qty vide Pre measurement sheet page no . 11 to 11										
								Total		1.60	Cum
8	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate) with all lead and lift , loading and unloading and allover incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work										
	Connecting Road 2nd cross road to 1st Cross Road										
	LHS										
	0.00	25.70		1	18.50			0.75		13.88	
	31.70	53.70		1	14.80			0.75		11.10	
	RHS										
	0.00	25.90		1	19.30			0.75		14.48	
	31.30	52.70		1	15.40			0.75		11.55	
	1st Cross Road										
	LHS										
	0.00	30.00		1	28.80			0.75		21.60	
	41.70	57.80		1	14.90			0.75		11.18	
	RHS										
	0.00	30.00		1	28.20			0.75		21.15	
	41.70	67.50		1	24.00			0.75		18.00	
	1st Cross Road (Vinayaka Vidya Kendra School)										
	LHS										
	0.00	13.00		1	13.00			0.75		9.75	
	13.00	23.00		1	10.00			0.75		7.50	
	23.00	32.00		1	0.00			0.75		0.00	
	32.00	47.10		1	15.10			0.75		11.33	

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